

Untitled-4 Formatted Alignment

A B C	hUCPH	ATGGTTGGGT TCAAGGCCAC AGATGTGCCC CCTACTGCCA CTGTGAAGTT	50
	hUCP2 (Fleury)	ATGGTTGGGT TCAAGGCCAC AGATGTGCCC CCTACTGCCA CTGTGAAGTT	50
	hUCP2 (Chen, Tularik)	ATGGTTGGGT TCAAGGCCAC AGATGTGCCC CCTACTGCCA CTGTGAAGTT	50
	hUCPH	TCTTGGGGCT GGCACAGCTG CCTGCATCGC AGATCTCATC ACCTTTCCTC	100
	hUCP2 (Fleury)	TCTTGGGGCT GGCACAGCTG CCTGCATCGC AGATCTCATC ACCTTTCCTC	100
	hUCP2 (Chen, Tularik)	TCTTGGGGCT GGCACAGCTG CCTGCATCGC AGATCTCATC ACCTTTCCTC	100
	hUCPH	TGGATACTGC TAAAGTCCGG TTACAGATCC AAGGAGAAAG TCAGGGGCCA	150
	hUCP2 (Fleury)	TGGATACTGC TAAAGTCCGG TTACAGATCC AAGGAGAAAG TCAGGGGCCA	150
	hUCP2 (Chen, Tularik)	TGGATACTGC TAAAGTCCGG TTACAGATCC AAGGAGAAAG TCAGGGGCCA	150
	hUCPH	GTGCGCGCTA CAGC CAGCGC CCAGTACCGC GGTGTGATGG GCACCATTCCT	200
	hUCP2 (Fleury)	GTGCGCGCTA CAGC CAGCGC CCAGTACCGC GGTGTGATGG GCACCATTCCT	200
	hUCP2 (Chen, Tularik)	GTGCGCGCTA CAGC CAGCGC CCAGTACCGC GGTGTGATGG GCACCATTCCT	200
	hUCPH	GACCATGGTG CGTACTGAGG GCCCCGAAG CCTCTACAAT GGGCTGGTTG	250
	hUCP2 (Fleury)	GACCATGGTG CGTACTGAGG GCCCCGAAG CCTCTACAAT GGGCTGGTTG	250
	hUCP2 (Chen, Tularik)	GACCATGGTG CGTACTGAGG GCCCCGAAG CCTCTACAAT GGGCTGGTTG	250
	hUCPH	CCGGCCTGCA GCGCCAAATG AGCTTTGCCT CTGTCCGCAT CGGCCTGTAT	300
	hUCP2 (Fleury)	CCGGCCTGCA GCGCCAAATG AGCTTTGCCT CTGTCCGCAT CGGCCTGTAT	300
	hUCP2 (Chen, Tularik)	CCGGCCTGCA GCGCCAAATG AGCTTTGCCT CTGTCCGCAT CGGCCTGTAT	300
	hUCPH	GATTCTGTCA AACAGTTCTA CACCAAGGGC TCTGAGCATG CCAGCATTTGG	350
	hUCP2 (Fleury)	GATTCTGTCA AACAGTTCTA CACCAAGGGC TCTGAGCATG CCAGCATTTGG	350
	hUCP2 (Chen, Tularik)	GATTCTGTCA AACAGTTCTA CACCAAGGGC TCTGAGCATG CCAGCATTTGG	350
	hUCPH	GAGCCGCTC CTAGCAGGCA GCACCACAGG TGCCCTGGCT GTGGCTGTGG	400
	hUCP2 (Fleury)	GAGCCGCTC CTAGCAGGCA GCACCACAGG TGCCCTGGCT GTGGCTGTGG	400
	hUCP2 (Chen, Tularik)	GAGCCGCTC CTAGCAGGCA GCACCACAGG TGCCCTGGCT GTGGCTGTGG	400
	hUCPH	CCCAGCCCAC GGATGTGGTA AAGGTCCGAT TCCAAGCTCA GGCCCGGGCT	450
	hUCP2 (Fleury)	CCCAGCCCAC GGATGTGGTA AAGGTCCGAT TCCAAGCTCA GGCCCGGGCT	450
	hUCP2 (Chen, Tularik)	CCCAGCCCAC GGATGTGGTA AAGGTCCGAT TCCAAGCTCA GGCCCGGGCT	450
	hUCPH	GGAGGTGGTC GGAGATACCA AAGCACCGTC AATGCCTACA AGACCATTCG	500
	hUCP2 (Fleury)	GGAGGTGGTC GGAGATACCA AAGCACCGTC AATGCCTACA AGACCATTCG	500
	hUCP2 (Chen, Tularik)	GGAGGTGGTC GGAGATACCA AAGCACCGTC AATGCCTACA AGACCATTCG	500
	hUCPH	CCGAGAGGAA GGGTTCCGGG GCCTCTGGAA AGGGACCTCT CCCAATGTTG	550
	hUCP2 (Fleury)	CCGAGAGGAA GGGTTCCGGG GCCTCTGGAA AGGGACCTCT CCCAATGTTG	550
	hUCP2 (Chen, Tularik)	CCGAGAGGAA GGGTTCCGGG GCCTCTGGAA AGGGACCTCT CCCAATGTTG	550
	hUCPH	CTCGTAATGC CATGTGCAAC TGTGCTGAGC TGGTGACCTA TGACCTCATC	600
	hUCP2 (Fleury)	CTCGTAATGC CATGTGCAAC TGTGCTGAGC TGGTGACCTA TGACCTCATC	600
	hUCP2 (Chen, Tularik)	CTCGTAATGC CATGTGCAAC TGTGCTGAGC TGGTGACCTA TGACCTCATC	600
	hUCPH	AAGGATGCCC TCCTGAAAGC CAACCTCATG ACAGATGACC TCCCTTGCCA	650
	hUCP2 (Fleury)	AAGGATGCCC TCCTGAAAGC CAACCTCATG ACAGATGACC TCCCTTGCCA	650
	hUCP2 (Chen, Tularik)	AAGGATGCCC TCCTGAAAGC CAACCTCATG ACAGATGACC TCCCTTGCCA	650

hUCPH	CTTCACTTCT	GCCTTTGGGG	CAGGCTTCTG	CACCACTGTC	ATCGCCTCCC	700
hUCP2 (Fleury)	CTTCACTTCT	GCCTTTGGGG	CAGGCTTCTG	CACCACTGTC	ATCGCCTCCC	700
hUCP2 (Chen, Tularik)	CTTCACTTCT	GCCTTTGGGG	CAGGCTTCTG	CACCACTGTC	ATCGCCTCCC	700
hUCPH	CTGTAGACGT	GGTCAAGACG	AGATACATGA	ACTCTGCCCT	GGGCCAGTAC	750
hUCP2 (Fleury)	CTGTAGACGT	GGTCAAGACG	AGATACATGA	ACTCTGCCCT	GGGCCAGTAC	750
hUCP2 (Chen, Tularik)	CTGTAGACGT	GGTCAAGACG	AGATACATGA	ACTCTGCCCT	GGGCCAGTAC	750
hUCPH	AGTAGCGCTG	GCCACTGTGC	CCTTACCATG	CTCCAGAAGG	AGGCGCCCCG	800
hUCP2 (Fleury)	AGTAGCGCTG	GCCACTGTGC	CCTTACCATG	CTCCAGAAGG	AGGCGCCCCG	800
hUCP2 (Chen, Tularik)	AGTAGCGCTG	GCCACTGTGC	CCTTACCATG	CTCCAGAAGG	AGGCGCCCCG	800
hUCPH	AGCCTTCTAC	AAAGGGTTCA	TGCCCTCCTT	TCTCCGCTTG	GGTTCCTGGA	850
hUCP2 (Fleury)	AGCCTTCTAC	AAAGGGTTCA	TGCCCTCCTT	TCTCCGCTTG	GGTTCCTGGA	850
hUCP2 (Chen, Tularik)	AGCCTTCTAC	AAAGGGTTCA	TGCCCTCCTT	TCTCCGCTTG	GGTTCCTGGA	850
hUCPH	ACGTGGTGAT	GTTCGTCACC	TATGAGCAGC	TGAAACGAGC	CCTCATGGCT	900
hUCP2 (Fleury)	ACGTGGTGAT	GTTCGTCACC	TATGAGCAGC	TGAAACGAGC	CCTCATGGCT	900
hUCP2 (Chen, Tularik)	ACGTGGTGAT	GTTCGTCACC	TATGAGCAGC	TGAAACGAGC	CCTCATGGCT	900
hUCPH	GCCTGCACTT	CCCGAGAGGC	TCCCTTCTGA			930
hUCP2 (Fleury)	GCCTGCACTT	CCCGAGAGGC	TCCCTTCTGA			930
hUCP2 (Chen, Tularik)	GCCTGCACTT	CCCGAGAGGC	TCCCTTCTGA			930

Untitled-5 Formatted Alignment

A hUCP2 (Fleury)	MGEKADVP PPAWKTECA GPACGADBLT TPPEIDVAVR PDIQGESOG	50
B hUCP2 (Chen, Tularik)	MGEKADVP PPAWKTECA GPACGADBLT TPPEIDVAVR PDIQGESOG	50
C hUCPH	MGEKADVP PPAWKTECA GPACGADBLT TPPEIDVAVR PDIQGESOG	50
hUCP2 (Fleury)	VRATSAOVR GVCCHHILW RUPPPRSIN GLVAGTOROM SIVSVKICHL	100
hUCP2 (Chen, Tularik)	VRATSAOVR GVCCHHILW RUPPPRSIN GLVAGTOROM SIVSVKICHL	100
hUCPH	VRATSAOVR GVCCHHILW RUPPPRSIN GLVAGTOROM SIVSVKICHL	100
hUCP2 (Fleury)	DSVKQFYTKG SEIASIGSRL IAGSHIGALA VVAOPIDW KVRQOAR	150
hUCP2 (Chen, Tularik)	DSVKQFYTKG SEIASIGSRL IAGSHIGALA VVAOPIDW KVRQOAR	150
hUCPH	DSVKQFYTKG SEIASIGSRL IAGSHIGALA VVAOPIDW KVRQOAR	150
hUCP2 (Fleury)	GGRRYOSIV NAYKIDAREE GRRGKKGIS ENVARNAIN GAEHVIYDRI	200
hUCP2 (Chen, Tularik)	GGRRYOSIV NAYKIDAREE GRRGKKGIS ENVARNAIN GAEHVIYDRI	200
hUCPH	GGRRYOSIV NAYKIDAREE GRRGKKGIS ENVARNAIN GAEHVIYDRI	200
hUCP2 (Fleury)	KDALIKANEM IDDDHCHITS ARGAGRGHIV IASQVDWKT RMNSALGSO	250
hUCP2 (Chen, Tularik)	KDALIKANEM IDDDHCHITS ARGAGRGHIV IASQVDWKT RMNSALGSO	250
hUCPH	KDALIKANEM IDDDHCHITS ARGAGRGHIV IASQVDWKT RMNSALGSO	250
hUCP2 (Fleury)	SSAGHCALIM LQKEGPRAPV KGMPSSEIRL GSNVWVMT YDQIKRANM	300
hUCP2 (Chen, Tularik)	SSAGHCALIM LQKEGPRAPV KGMPSSEIRL GSNVWVMT YDQIKRANM	300
hUCPH	SSAGHCALIM LQKEGPRAPV KGMPSSEIRL GSNVWVMT YDQIKRANM	300
hUCP2 (Fleury)	AGTSREAPP	309
hUCP2 (Chen, Tularik)	AGTSREAPP	309
hUCPH	AGTSREAPP	309

Figure 2